Certificate of Compliance

Certificate: 70100659 **Master Contract:** 264855

Project: 70216811 **Date Issued:** 2019-04-10

Issued to: **Mettler-Toledo GmbH Process Analytics**
Im Hackacker 15
Urdorf, Zurich 8902
SWITZERLAND
Attention: Rene Oberlin

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only

Issued by: Annie Qi
Annie Qi

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

Class I, Division 2, Groups A, B, C and D, T4;
Ex nA nC IIC T4 Gc;

CLASS - C225882 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups A, B, C and D, T4;
Class I, Zone 2, AEx nA nC IIC T4 Gc

M400 G2 series multi-parameter transmitter, Model M400 Type *, rated 20-30Vdc, 100-240Vac, 50/60Hz, maximum power 10W; Temp. code T4, -20°C ≤ Tamb ≤ 50°C; Enclosure: Type 4X / IP66.

Model designations of the M400 Type * are as follows:
* = 1: measures pH and conductivity
* = 2: measures pH, conductivity, dissolved oxygen, dissolved carbon dioxide, ozone

* = 3: measures pH, conductivity, dissolved oxygen, gas-phase oxygen, dissolved carbon dioxide, ozone
* = any alphanumeric code and strings that is only with adjustment on firmware compared with the above models: measures pH, conductivity, dissolved oxygen, gas-phase oxygen, dissolved carbon dioxide, ozone

Conditions of Acceptability:

1. The product shall be operated at an altitude no greater than 2000m.
2. Maximum normal operation temperature is 50°C.
3. The equipment shall be supplied with an approved power supply cord set or power supply cord with plug that is acceptable to the authorities in the country where the equipment is to be used.
4. Protective earthing TERMINAL is identified by the IEC 417 No 5019 symbol, adjacent to the TERMINAL.
5. The units shall be used and installed by professional personnel or the submitter's trained personnel only.
6. The product was tested in a branch circuit protected by a 20 A circuit breaker. Additional evaluation shall be conducted if protection with a circuit breaker with a higher current is to be used in the end system.
7. Final acceptance of this equipment when installed is subject to the jurisdiction of the local inspection authority.
8. A PC shall only be connected to the product when in a non-hazardous (unclassified) location.
9. All devices connected to the product when used in a hazardous (classified) location should be suitably certified.
10. The display has not been tested for resistance to ultraviolet light. The display shall be protected from direct light (e.g. from sunlight or luminaires).

APPLICABLE REQUIREMENTS

CSA Std C22.2 No. 213-16	Non-incendive electrical equipment for use in Class I and II, Division 2 and Class III, Division 1 and 2 hazardous (Classified) locations
CAN/CSA-C22.2 No. 60079-0-15	Explosive atmospheres - Part 0: Equipment - General requirements
CAN/CSA-C22.2 No. 60079-11-14	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
CAN/CSA-C22.2 No. 60079-15-16	Electrical apparatus for explosive gas atmospheres - Part 15: Construction, test and marking of type of protection "n" electrical apparatus
CAN/CSA-C22.2 No. 61010-1-12	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
ANSI/ISA-12.12.01-2016	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
UL 60079-0-2013	Explosive atmospheres - Part 0: Equipment – General Requirements
UL 60079-11-2013	Explosive Atmospheres - Part 11: Equipment Protection by Intrinsic Safety "i"
UL 60079-15-2013	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
UL Std. No. 61010-1 (3rd Edition)	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements

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CSA C22.2 No.94.2-15	Enclosures for electrical equipment, environmental considerations
UL50E Second Edition	Enclosures for Electrical Equipment, Environmental Considerations

Note: CSA/UL 60079-11 are included in the list of applicable requirements for assessment of the keypad switches only, but, to avoid confusion, “ic” is not included in the certification code because there is no intrinsically safe port.

Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70216811	2019-04-10	Update report 70100659 to add additional models which are only with adjustment on firmware compared with existing models.
70119348	2017-02-22	Update report 70100659 to add marking Type 4X for the enclosure
70100659	2017-01-11	Original cCSAus certification for M400 G2 series multi-parameter transmitter